

Coastal Protection and Restoration Authority of Louisiana

Office of Coastal Protection and Restoration

2008 Annual Inspection Report

Bayou Sauvage Refuge Restoration Phase I

State Project Number PO-16 Priority Project List 1

July 13, 2009 Orleans Parish

Prepared by:

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I. Introduction

The Bayou Sauvage Refuge Restoration Phase I Project (PO-16) is located in eastern Orleans Parish approximately 10 miles northeast of Chalmette, LA (Appendix A). It is bordered by U.S. Highway 90 to the north, the Lake Pontchartrain Hurricane Protection Levee to the east and south, and the Maxent Canal levee to the west. The project area includes approximately 3,800 acres of fresh marsh.

II. Project Description and History

The project is divided into two units (North Unit and South Unit) which are hydrologically separated by a railroad embankment. A 30-inch diameter (22,000 GPM) water pump was installed in each unit, with each pump having the capability to remove water from the unit.

The project's purpose is to regulate water levels in the marshes of both units throughout the year by pumping excess water from the management areas. Such management during the fall and winter, enhances emergent fresh marsh habitats in the project area for wintering waterfowl. Annually, the water level is intended to be controlled to the range of 0.0 feet to - 0.5 feet below marsh elevation during the spring and summer and to within 0.0 feet to + 0.5 feet above marsh elevation during the fall and winter. The water level control schedule is also intended to preserve black willow habitat in order to maintain wading bird rookeries.

III. Inspection Purpose and Procedures

The purpose of the annual inspection of the Bayou Sauvage Refuge Restoration Phase I Project (PO-16) is to evaluate the constructed project features to identify any deficiencies and prepare a report detailing the condition of project features and recommended corrective actions needed. Should it be determined that corrective actions are needed, OCPR shall provide, in the report, a detailed cost estimate for engineering, design, supervision, inspection, and construction contingencies, and an assessment of the urgency of such repairs (O&M Plan September 2, 2004). The annual inspection report also contains a summary of maintenance projects and an estimated projected budget for the upcoming three (3) years for operation, maintenance and rehabilitation. The three (3) year projected operation and maintenance budget is shown in Appendix C. A summary of past operation and maintenance projects completed since completion of the project are outlined in Section II.

Pon Dixon with the US Fish and Wildlife Services (USFWS) was contacted by Barry Richard of the OCPR after both Hurricanes Gustav and Ike passed. The information provided will be used as the inspection for this year.

IV. Inspection Results

Pump #5

Pump #5 is working as designed.

Pump #6

Pump #6 is working as designed.

V. Conclusions

Both pumps are performing as intended and only require minor preventative maintenance at this time.

VI. Recommendations

At this time only preventative maintenance is needed. The marsh situation will continue to be monitored.

Immediate Repairs

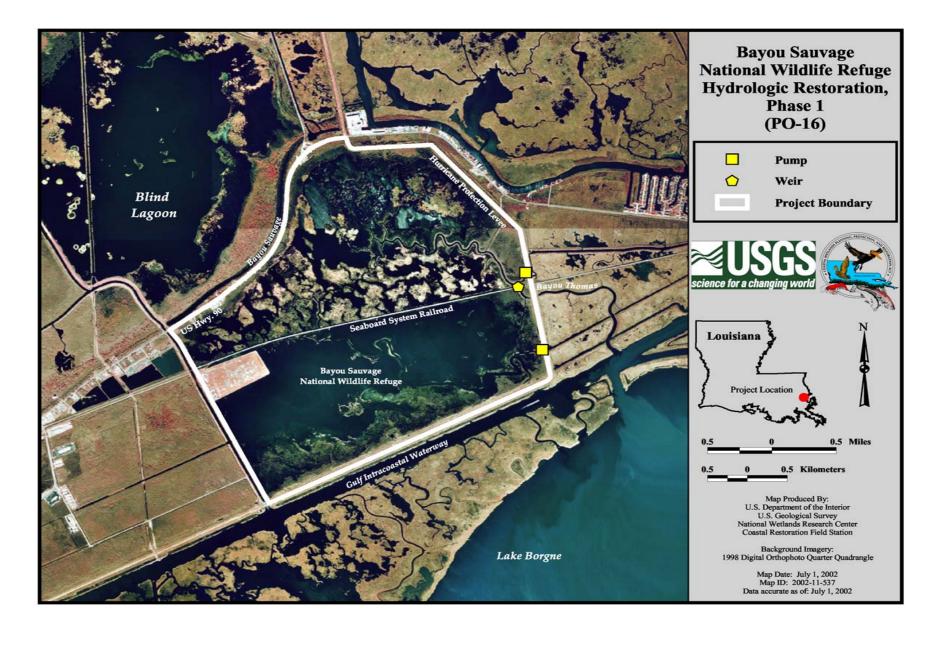
• None at this time.

Programmed Maintenance

• Periodically check pump stations for any maintenance needs.

Appendix A

Project Features Map



Appendix B

Photographs

There are no photographs for this inspection report.

Appendix C

Three Year Budget Projection

Bayou Sauvage Refuge Restoration Phase I / PO-16 / PPL 1 Three-Year Operations & Maintenance Budgets 07/01/2009 - 06/30/2012

=			
<u>Project Manager</u>	O & M Manager	Federal Sponsor	Prepared By
Barry Richard	Barry Richard	USFWS	Barry Richard
Maintenance Inspection General Maintenance Structure Operation Administration Maintenance/Rehabilitation 09/10 Description:	\$3,609.00 \$0.00 \$15,058.00 \$0.00	\$3,703.00 \$0.00 \$15,450.00 \$0.00	2011/2012 \$3,799.00 \$0.00 \$15,852.00 \$0.00
E&D Construction Construction Oversight Sub Total - Maint. And Rehab. 10/11 Description	\$0.00 \$0.00 \$0.00 \$		
E&D Construction Construction Oversight	Sub Total - Maint. And Rehab.	\$0.00 \$0.00 \$0.00 \$	
11/12 Description:			
E&D Construction Construction Oversight	0000/0040	Sub Total - Maint. And Rehab.	\$0.00 \$0.00 \$0.00 \$ -
Total O&M Budgets	2009/2010 \$ 18,667.00	2010/2011 \$ 19,153.00	2011/2012 \$ 19,651.00
O &M Budget (3 yr Tota Unexpended O & M Bud Remaining O & M Budg	lget		\$ 57,471.00 \$ 158,438.79 \$ 100,967.79

OPERATION AND MAINTENANCE BUDGET WORKSHEET 2009/2010

Bayou Sauvage Refuge Restoration Phase I / PO-16 / PPL 1

DESCRIPTION	UNIT	EST.	UNIT PRICE	ESTIMATED
2200 110.11	5	QTY.	0	TOTAL
O&M Inspection and Report	EACH	1	\$3,609.00	\$3,609.00
General Structure Maintenance	LUMP	1	\$0.00	\$0.00
Engineering and Design	LUMP	1	\$0.00	\$0.00
Operations	LUMP	1	\$15,058.00	\$15,058.00
Construction Oversight	LUMP	1	\$0.00	\$0.00
	ADI	INISTRAT	ION	
LDNR / CRD Admin.	LUMP	0	\$0.00	\$0.00
FEDERAL SPONSER Admin.	LUMP	0	\$0.00	\$0.00
SURVEY Admin.	LUMP	0	\$0.00	\$0.00
OTHER				\$0.00
	\$0.00			

MAINTENANCE / CONSTRUCTION

SURVEY

	00///27				
SURVEY DESCRIPTION:					
	Secondary Monument	EACH	0	\$0.00	\$0.00
	Staff Gauge / Recorders	EACH	0	\$0.00	\$0.00
	Marsh Elevation / Topography	LUMP	0	\$0.00	\$0.00
	TBM Installation	EACH	0	\$0.00	\$0.00
	OTHER				\$0.00
	-	\$0.00			

GEOTECHNICAL

GEOTECH					
DESCRIPTION:					
-	Borings	EACH	0	\$0.00	\$0.00
	OTHER				\$0.00
		\$0.00			

	CONSTRUCTION					
CONSTRUCTION						
DESCRIPTION:	Rip Rap	LIN FT	TON / FT	TONS	UNIT PRICE	
	πρικαρ	0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
	Filter Cloth / Geogrid Fabric	0	SQ YD	0	\$0.00	\$0.00
	Navagation Aid		EACH	0	\$0.00	\$0.00
	Signage		EACH	0	\$0.00	\$0.00
	General Excavation / Fill		CU YD	0	\$0.00	\$0.00
	Dredging		CU YD	0	\$0.00	\$0.00
	Sheet Piles (Lin Ft or Sq Yds)		00 15	0	\$0.00	\$0.00
	Timber Piles (each or lump sum)			0	\$0.00	\$0.00
	Timber Members (each or lump sum)			0	\$0.00	\$0.00
	Hardware		LUMP	1	\$0.00	\$0.00
	Materials		LUMP	1	\$0.00	\$0.00
	Mob / Demob		LUMP	1	\$0.00	\$0.00
	Contingency		LUMP	1	\$0.00	\$0.00
	General Structure Maintenance		LUMP	1	\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
			·	TOTAL CO	NSTRUCTION COSTS:	\$0.00

TOTAL OPERATIONS AND MAINTENANCE BUDGET:

\$18,667.00

OPERATION AND MAINTENANCE BUDGET WORKSHEET 2010/2011

Bayou Sauvage Refuge Restoration Phase I / PO-16 / PPL 1

DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	ESTIMATED TOTAL
O&M Inspection and Report	EACH	1	\$3,703.00	\$3,703.00
General Structure Maintenance	LUMP	1	\$0.00	\$0.00
Engineering and Design	LUMP	1	\$0.00	\$0.00
Operations	LUMP	1	\$15,450.00	\$15,450.00
Construction Oversight	LUMP	1	\$0.00	\$0.00
	ADN	/INISTRAT	ION	
LDNR / CRD Admin.	LUMP	0	\$0.00	\$0.00
FEDERAL SPONSER Admin.	LUMP	0	\$0.00	\$0.00
SURVEY Admin.	LUMP	0	\$0.00	\$0.00
OTHER				\$0.00
		TOTAL ADM	INISTRATION COSTS:	\$0.00

MAINTENANCE / CONSTRUCTION

SURVEY

	JUNIET						
SURVEY							
DESCRIPTION:							
	Secondary Monument	EACH	0	\$0.00	\$0.00		
	Staff Gauge / Recorders	EACH	0	\$0.00	\$0.00		
	Marsh Elevation / Topography	LUMP	0	\$0.00	\$0.00		
	TBM Installation	EACH	0	\$0.00	\$0.00		
	OTHER				\$0.00		
	TOTAL SURVEY COSTS:						

GEOTECHNICAL

GEOTECH DESCRIPTION:					
	Borings	EACH	0	\$0.00	\$0.00
	OTHER				\$0.00
		\$0.00			

	CONSTRUCTION					
CONSTRUCTION DESCRIPTION:						
	Rip Rap	LIN FT	TON / FT	TONS	UNIT PRICE	
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
	Filter Cloth / Geogrid Fabric		SQ YD	0	\$0.00	\$0.00
	Navagation Aid		EACH	0	\$0.00	\$0.00
	Signage		EACH	0	\$0.00	\$0.00
	General Excavation / Fill		CU YD	0	\$0.00	\$0.00
	Dredging		CU YD	0	\$0.00	\$0.00
	Sheet Piles (Lin Ft or Sq Yds)			0	\$0.00	\$0.00
	Timber Piles (each or lump sum)			0	\$0.00	\$0.00
	Timber Members (each or lump sum)			0	\$0.00	\$0.00
	Hardware		LUMP	1	\$0.00	\$0.00
	Materials		LUMP	1	\$0.00	\$0.00
	Mob / Demob		LUMP	1	\$0.00	\$0.00
	Contingency		LUMP	1	\$0.00	\$0.00
	General Structure Maintenance		LUMP	1	\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
				TOTAL CO	NSTRUCTION COSTS:	\$0.00

TOTAL OPERATIONS AND MAINTENANCE BUDGET:

\$19,153.00

OPERATION AND MAINTENANCE BUDGET WORKSHEET 2011/2012

Bayou Sauvage Refuge Restoration Phase I / PO-16 / PPL 1

DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	ESTIMATED Total
O&M Inspection and Report	EACH	1	\$3,799.00	\$3,799.00
General Structure Maintenance	LUMP	1	\$0.00	\$0.00
Engineering and Design	LUMP	1	\$0.00	\$0.00
Operations	LUMP	1	\$15,852.00	\$15,852.00
Construction Oversight	LUMP	1	\$0.00	\$0.00
	ADN	MINISTRAT	ION	
LDNR / CRD Admin.	LUMP	0	\$0.00	\$0.00
FEDERAL SPONSER Admin.	LUMP	0	\$0.00	\$0.00
SURVEY Admin.	LUMP	0	\$0.00	\$0.00
OTHER				\$0.00
	\$0.00			

MAINTENANCE / CONSTRUCTION

s	U	R	ν	Ε	γ

	SURVET				
SURVEY DESCRIPTION:					
	Secondary Monument	EACH	0	\$0.00	\$0.00
	Staff Gauge / Recorders	EACH	0	\$0.00	\$0.00
	Marsh Elevation / Topography	LUMP	0	\$0.00	\$0.00
	TBM Installation	EACH	0	\$0.00	\$0.00
	OTHER				\$0.00
	TOTAL SURVEY COSTS:				\$0.00

GEOTECHNICAL

GEOTECH DESCRIPTION:					
	Borings	EACH	0	\$0.00	\$0.00
	OTHER				\$0.00
	TOTAL GEOTECHNICAL COSTS:				\$0.00

CONSTRUCTION

	CONSTRUCTION					
CONSTRUCTION DESCRIPTION:						
DESCRIPTION.	Rip Rap	LIN FT	TON / FT	TONS	UNIT PRICE	
	1.05 1.05	0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
	Filter Cloth / Geogrid Fabric		SQ YD	0	\$0.00	\$0.00
	Navagation Aid		EACH	0	\$0.00	\$0.00
	Signage		EACH	0	\$0.00	\$0.00
	General Excavation / Fill		CU YD	0	\$0.00	\$0.00
	Dredging		CU YD	0	\$0.00	\$0.00
	Sheet Piles (Lin Ft or Sq Yds)			0	\$0.00	\$0.00
	Timber Piles (each or lump sum)			0	\$0.00	\$0.00
	Timber Members (each or lump sum)			0	\$0.00	\$0.00
	Hardware		LUMP	1	\$0.00	\$0.00
	Materials		LUMP	1	\$0.00	\$0.00
	Mob / Demob		LUMP	1	\$0.00	\$0.00
	Contingency		LUMP	1	\$0.00	\$0.00
	General Structure Maintenance		LUMP	1	\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER	•			\$0.00	\$0.00
	OTHER	•			\$0.00	\$0.00
,	TOTAL CONSTRUCTION COSTS:					

TOTAL OPERATIONS AND MAINTENANCE BUDGET:

\$19,651.00

Appendix D

Field Inspection Form

There are no field inspection forms for this inspection.